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Serial No. 09/529,967

25 June 2001

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Clean Copy of Amended Claims

e3
Sub
D1
1 (amended). A method for the determination of tetracycline in a sample characterized in that

- the sample is brought into contact with prokaryotic cells encompassing a DNA vector including a nucleotide sequence encoding a light producing enzyme under transcriptional control of a tetracycline repressor and a tetracycline promoter,

- detecting the luminescence emitted from the intact cells, and
- comparing the emitted luminescence to the luminescence emitted from cells in a control containing no tetracycline

- wherein a detectable luminescence higher than a luminescence of the control indicates the presence of tetracycline in the sample.

c4
Sub
e3
8 (twice amended). The method of claim 1 characterized in that the sensitivity of the analysis with respect to the tetracycline derivative is increased by the use of cells which are antibiotic sensitive mutant strains.

9 (twice amended). The method of claim 1 characterized in that the luminescence is measured using an X-ray or photographic film, a CCD-camera, a liquid scintillation counter or a luminometer.

10 (twice amended). The method of claim 1 characterized in that the sample to be analyzed is milk, fish, meat, infant formula, eggs, honey, vegetables, serum, plasma or whole blood.

c5
11 (twice amended). A recombinant prokaryotic cell characterized in that it encompasses the DNA vector of claim 21, wherein the DNA vector is a plasmid containing the luxCDABE genes (SEQ ID NO:3) under transcription control of a tetracycline repressor (TetR) (SEQ ID NO:11) and a tetracycline promoter (TetA) (SEQ ID NO:9) from *Tn10*.

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c6 14 (twice amended) The DNA vector of claim 22, wherein the vector is a plasmid comprising the luxCDABE genes (SEQ ID NO:3) under transcription control of a tetracycline repressor (TetR) (SEQ ID NO:11) and a tetracycline promoter (TetA) (SEQ ID NO:9) from *Tn10*.



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Clean Copy of Newly Added Claims

C7 21 (new). A recombinant prokaryotic cell characterized in that it encompasses a DNA vector including a nucleotide sequence encoding a light producing enzyme under transcriptional control of a tetracycline repressor and a tetracycline promoter.

22 (new). A DNA vector characterized in that it comprises a nucleotide sequence encoding a light producing enzyme under transcriptional control of a tetracycline repressor and a tetracycline promoter.
